

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

**1. (original):** A stimuable phosphor sheet comprising:

a stimuable phosphor layer containing a europium-activated cesium bromide based stimuable phosphor as a main ingredient, said stimuable phosphor layer being formed by a vacuum film forming technique; and

a substrate supporting said stimuable phosphor layer,

wherein a maximum intensity of emission that is generated in a wavelength range of 490-510 nm when said stimuable phosphor layer is exposed to electron beams is lower than a maximum intensity of the emission generated in a wavelength range of 440-460 nm.

**2. (original):** The stimuable phosphor sheet according to claim 1, further comprising:

a reflective film formed between said substrate and said stimuable phosphor layer, said reflective film for improving efficiency of emergence of stimulated light emission.

**3. (original):** The stimuable phosphor sheet according to claim 2, wherein said reflective film is a thin film made of one of Al, Al alloys, Ag and Ag alloys, and a film thickness of said reflective film ranges from 0.01  $\mu\text{m}$  to 5  $\mu\text{m}$ .

**4. (currently amended):** The stimuable phosphor sheet according to claim 2, further comprising:

a barrier film formed between said reflective film and said stimuable phosphor layer, said barrier film for preventing oxidation of said reflective film.

**5. (original):** The stimuable phosphor sheet according to claim 4, wherein said barrier film is a thin film made of one of silicon oxides, titanium oxides, silicon nitrides, cerium oxides and magnesium fluorides, and a film thickness of said barrier film ranges from 0.01  $\mu\text{m}$  to 5  $\mu\text{m}$ .

**6. (currently amended):** The stimuable phosphor sheet according to claim 1, further comprising:

a barrier film formed on said stimuable phosphor layer, said barrier film for preventing oxidation of said stimuable phosphor layer.

**7. (original):** The stimuable phosphor sheet according to claim 6, wherein said barrier film is a thin film made of one of silicon oxides, titanium oxides, silicon nitrides, silicon oxynitrides, cerium oxides and magnesium fluorides, and a film thickness of said barrier film ranges from 0.01  $\mu\text{m}$  to 5  $\mu\text{m}$ .

**8. (original):** The stimuable phosphor sheet according to claim 1, wherein said stimuable phosphor layer is a layer containing as said main ingredient a cesium bromide based

stimulable phosphor using europium as an activator, and a molarity ratio between said activator and said cesium bromide based stimulable ranges from 0.0005:1 to 0.01:1.

**9. (original):** The stimulable phosphor sheet according to claim 1, wherein a film thickness of said stimulable phosphor layer ranges from 50  $\mu\text{m}$  to 1000  $\mu\text{m}$ .

**10. (original):** The stimulable phosphor sheet according to claim 1, wherein said maximum intensity of the emission generated in the wavelength range of 490-510 nm is equal to or lower than 70% of said maximum intensity of the emission generated in the wavelength range of 440-460 nm.

**11. (original):** The stimulable phosphor sheet according to claim 1, wherein said maximum intensity of the emission generated in the wavelength range of 490-510 nm is equal to or lower than 50% of said maximum intensity of the emission generated in the wavelength range of 440-460 nm.

**12.-14. (canceled)**

**15. (new):** A method of producing stimulable phosphor sheet which comprises: a stimulable phosphor layer containing a europium-activated cesium bromide based stimulable phosphor as a main ingredient, said stimulable phosphor layer being formed by a vacuum film forming technique; and a substrate supporting said stimulable phosphor layer, wherein a

maximum intensity of emission that is generated in a wavelength range of 490-510 nm when said stimuable phosphor layer is exposed to electron beams is lower than a maximum intensity of the emission generated in a wavelength range of 440-460 nm, said method comprising:

- a step of preparing said substrate in a film forming system;
- a step of evaporating both of europium and cesium bromide by using a resistance heating in said film forming system;
- a step of performing evaporation under an evaporation atmosphere in a range of 0.01-3Pa to form said stimuable phosphor layer in said film forming system;
- a step of heating said substrate during said evaporation; and
- a step of annealing said stimuable phosphor layer after it was formed on said substrate, wherein a heating temperature for heating said substrate is in a range of 120-250°C and a heating temperature for annealing said stimuable phosphor layer is in a range of 150-250°C.